



PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 2002P13637WO	FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)	
International application No. PCT/DE2003/002885	International filing date (day/month/year) 28 August 2003 (28.08.2003)	Priority date (day/month/year) 30 October 2002 (30.10.2002)
International Patent Classification (IPC) or national classification and IPC H02B 11/127		
Applicant SIEMENS AKTIENGESELLSCHAFT		

1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.
2. This REPORT consists of a total of 4 sheets, including this cover sheet.
- ☒ This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).

These annexes consist of a total of 12 sheets.

3. This report contains indications relating to the following items:

- I ☒ Basis of the report
- II ☐ Priority
- III ☐ Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- IV ☐ Lack of unity of invention
- V ☒ Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- VI ☐ Certain documents cited
- VII ☐ Certain defects in the international application
- VIII ☐ Certain observations on the international application

Date of submission of the demand 24 May 2004 (24.05.2004)	Date of completion of this report 03 January 2005 (03.01.2005)
Name and mailing address of the IPEA/EP	Authorized officer
Facsimile No.	Telephone No.

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/DE2003/002885

I. Basis of the report

1. With regard to the elements of the international application:*

- ☐ the international application as originally filed
- ☒ the description:
 pages _____, as originally filed
 pages _____, filed with the demand
 pages 1-9 _____, filed with the letter of 19 May 2005 (19.05.2005)
- ☒ the claims:
 pages _____, as originally filed
 pages _____, as amended (together with any statement under Article 19
 pages _____, filed with the demand
 pages 1-7 _____, filed with the letter of 19 May 2005 (19.05.2005)
- ☒ the drawings:
 pages 1/1 _____, as originally filed
 pages _____, filed with the demand
 pages 2/2 _____, filed with the letter of 19 May 2005 (19.05.2005)
- ☐ the sequence listing part of the description:
 pages _____, as originally filed
 pages _____, filed with the demand
 pages _____, filed with the letter of _____

2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

- These elements were available or furnished to this Authority in the following language _____ which is:
- ☐ the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).
- ☐ the language of publication of the international application (under Rule 48.3(b)).
- ☐ the language of the translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3).

3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

- ☐ contained in the international application in written form.
- ☐ filed together with the international application in computer readable form.
- ☐ furnished subsequently to this Authority in written form.
- ☐ furnished subsequently to this Authority in computer readable form.
- ☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
- ☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

4. ☐ The amendments have resulted in the cancellation of:

- ☐ the description, pages _____
- ☐ the claims, Nos. _____
- ☐ the drawings, sheets/fig. _____

5. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**

* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rule 70.16 and 70.17).

** Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.
PCT/DE 03/02885

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims	1 - 7	YES
	Claims		NO
Inventive step (IS)	Claims	1 - 7	YES
	Claims		NO
Industrial applicability (IA)	Claims	1 - 7	YES
	Claims		NO

2. Citations and explanations

Novelty and inventive step:

DE-C1-19647747, which is cited in the introductory part of the description, is the closest prior art. This prior art document describes a withdrawable apparatus rack for a switchgear with a locking device in which the rotation of an actuating shaft of a main switch simultaneously displaces a locking bar, which in turn displaces a lock valve, thereby locking the apparatus rack. Single-point locking of the apparatus rack is thereby achieved so that said rack is positioned (see figures 1-3 and the corresponding text).

The point of insertion of the locking bar in a locking bar opening of an apparatus base can act as a rotational point about which excursion of the locking bar can take place. When strong forces are present owing to the passage of high currents, it may happen that the apparatus rack and thus the power circuit breaker move from their desired locking position. According to the invention, the locking device comprises two lock bolts that can be displaced substantially axially in opposite directions and can form a positive fit with the rackside. Owing to the claimed solution, excursion of the locking bar is not possible when there are relatively high currents and thus

relatively strong forces. A tipping movement of the power circuit breaker about a fixing point is also not possible.

The subject matter of claim 1 is therefore not obvious from DE-C1-19647747 and meets the requirements of PCT Article 33(2) and (3).

DE-U-7438652 discloses a truck interlock with a switch shaft that has ends resembling half-shafts which cooperate with correspondingly-shaped locking blocks provided on both sides of the cabinet rack.

In addition, locking bars are provided at both ends of the half-shaft-like switch shaft, said locking bars engaging, in the "ON" position of the switch, behind corresponding recesses in the switch rack.

The locking device with two lock bolts that can be displaced in opposite directions according to claim 1 is therefore not obvious from DE-U-7438652.

DE-A-3015259 and EP-A-0886355 (cited in the search report) are also not relevant.

Dependent claims 2 to 7 relate to appropriate embodiments of the power circuit breaker according to claim 1.

Industrial applicability:

The power circuit breaker according to claims 1 to 7 is clearly industrially applicable.